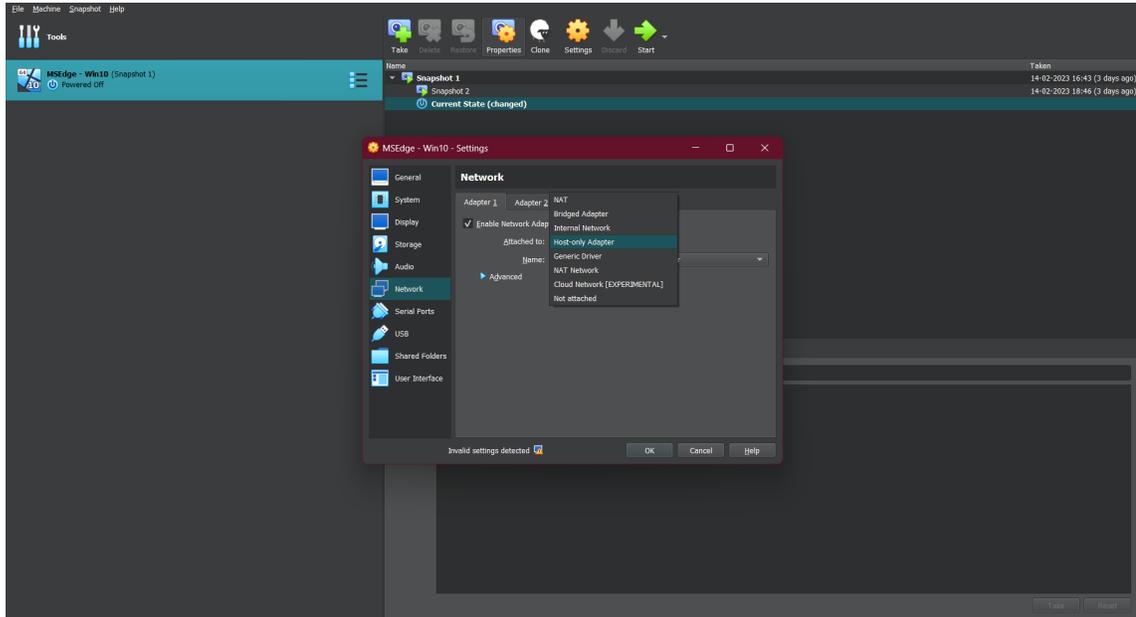
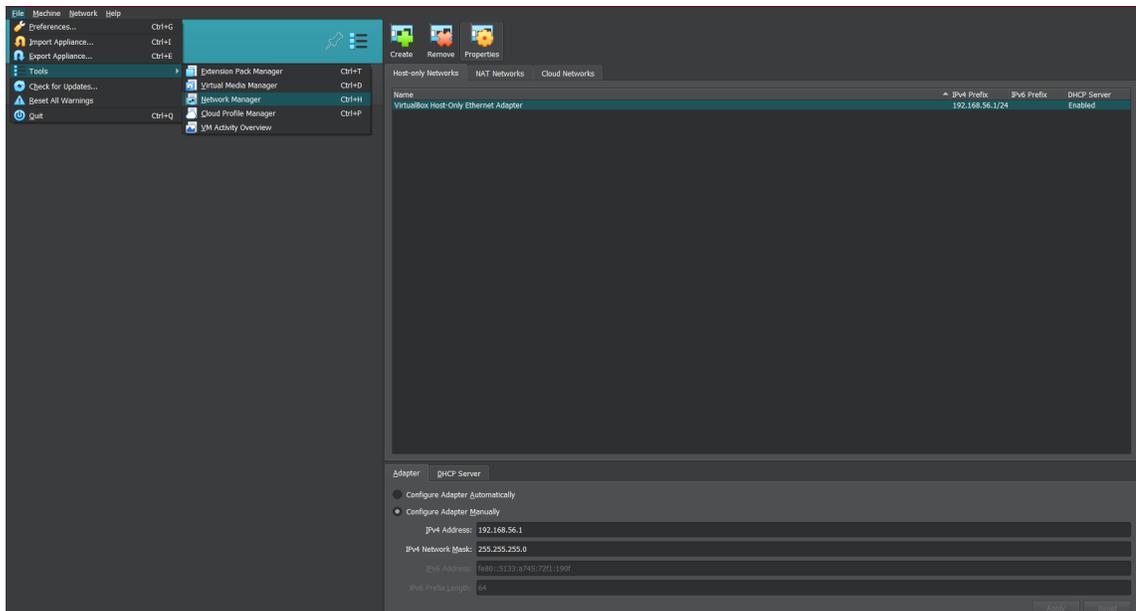


# FakenetNG Network config Instructions

1. In VirtualBox, go to Settings ->; Network for the VM. Set “Attached To” to Host-only Adapter.



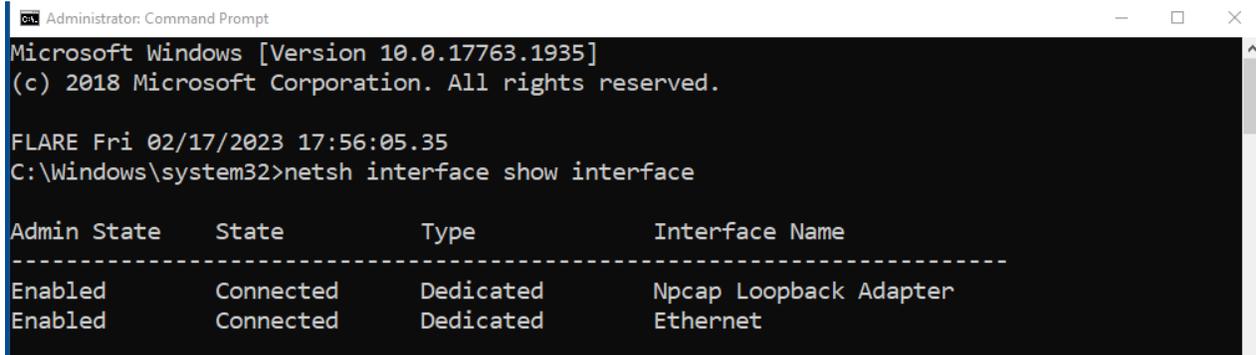
2. In File -> Tools -> Network Manager, select the adapter that the VM is using. For me, this is “VirtualBox Host-Only Ethernet Adapter”. The “IPv4 Address” field is the default gateway for the adapter and the “IPv4 Network Mask” field is the subnet mask.



3. In you VM, run cms.exe as Administrator. Type the following command to find the names of all the networks available:

Unset

```
netsh interface show interface
```



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.1935]
(c) 2018 Microsoft Corporation. All rights reserved.

FLARE Fri 02/17/2023 17:56:05.35
C:\Windows\system32>netsh interface show interface

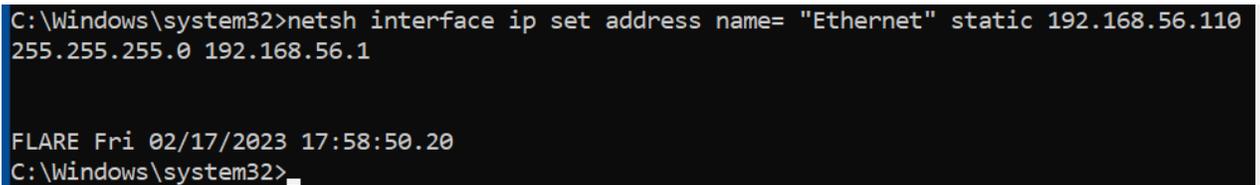
Admin State      State           Type           Interface Name
-----
Enabled          Connected      Dedicated      Npcap Loopback Adapter
Enabled          Connected      Dedicated      Ethernet
```

4. Type the following command to statically set your VM's IPv4 address:

Unset

```
netsh interface ip set address name= "Ethernet" static [ip
address] [netmask] [default gateway]
```

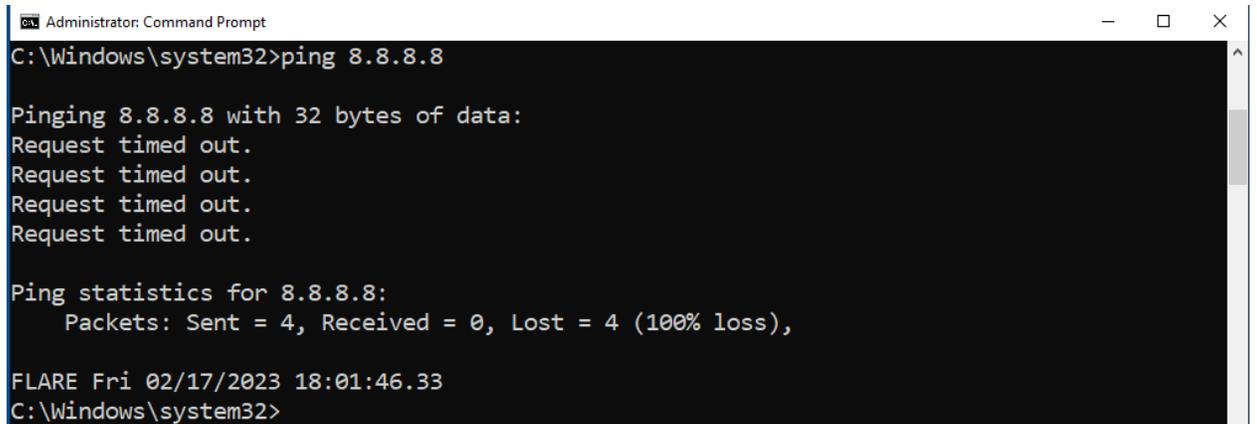
Ensure that you choose an IP address in the same subnet as the default gateway.



```
C:\Windows\system32>netsh interface ip set address name= "Ethernet" static 192.168.56.110
255.255.255.0 192.168.56.1

FLARE Fri 02/17/2023 17:58:50.20
C:\Windows\system32>
```

- Ping any IP address outside of your subnet as a test. After a moment you should see "Request Timed Out". If you see the error "Destination Host Unreachable", you have improperly configured your network settings.



```
Administrator: Command Prompt
C:\Windows\system32>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

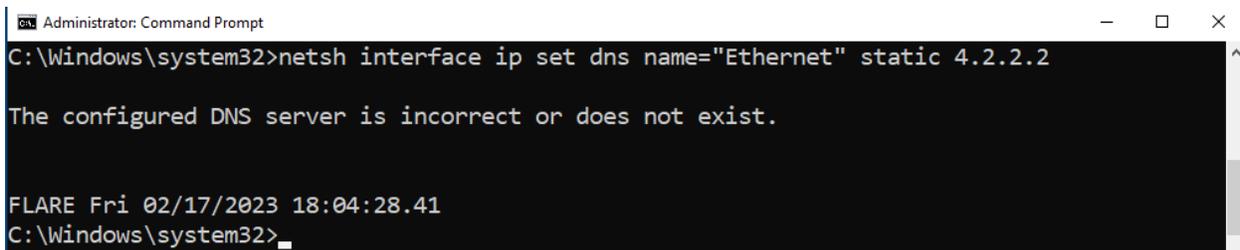
Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

FLARE Fri 02/17/2023 18:01:46.33
C:\Windows\system32>
```

- Then set your DNS server to an IP address outside of your subnet:

Unset

```
netsh interface ip set dns name="Ethernet" static 4.2.2.2
```



```
Administrator: Command Prompt
C:\Windows\system32>netsh interface ip set dns name="Ethernet" static 4.2.2.2

The configured DNS server is incorrect or does not exist.

FLARE Fri 02/17/2023 18:04:28.41
C:\Windows\system32>
```

Note: The command seems to work despite throwing this error.

- Check your settings before proceeding further using the command:

Unset

```
ipconfig /all
```

```
Ethernet adapter Ethernet:

Connection-specific DNS Suffix . : 
Description . . . . . : Intel(R) PRO/1000 MT Desktop Adapter
Physical Address. . . . . : 08-00-27-E6-E5-59
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::c50d:519f:96a4:e108%5(Preferred)
IPv4 Address. . . . . : 192.168.56.110(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.56.1
DHCPv6 IAID . . . . . : 84410407
DHCPv6 Client DUID. . . . . : 00-01-00-01-24-22-F1-B3-08-00-27-E6-E5-59
DNS Servers . . . . . : 4.2.2.2
NetBIOS over Tcpiip. . . . . : Enabled
```

8. Take a snapshot of your VM to save these settings. Running FakeNet-NG will change your DNS settings again, so it is easiest to just revert after analysis.
9. Run FakeNet-NG from “fakenet\_logs” folder in your desktop. In another window, ping any domain name. The ping request should now succeed even though you do not have internet connection.

```
Administrator: Command Prompt
FLARE Fri 02/17/2023 18:08:54.91
C:\Windows\system32>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Reply from 192.168.56.110: bytes=32 time=9ms TTL=128
Reply from 192.168.56.110: bytes=32 time=8ms TTL=128
Reply from 192.168.56.110: bytes=32 time=8ms TTL=128
Reply from 192.168.56.110: bytes=32 time=6ms TTL=128

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 6ms, Maximum = 9ms, Average = 7ms

FLARE Fri 02/17/2023 18:12:18.60
C:\Windows\system32>
```

```
C:\Tools\FakeNet-NG\fakenet1.4.11\fakenet.exe
168.56.110->192.168.56.110
02/17/23 06:12:07 PM [ Diverter] svchost.exe (2072) requ
ested UDP 192.168.56.110:53
02/17/23 06:12:07 PM [ Diverter] Received A request for
domain 'dns.msftncsl.com'.
02/17/23 06:12:15 PM [ Diverter] ICMP type 8 code 0 192.
168.56.110->8.8.8.8
02/17/23 06:12:15 PM [ Diverter] Modifying ICMP packet (
type 8, code 0):
02/17/23 06:12:15 PM [ Diverter] from: 192.168.56.110-
>8.8.8.8
02/17/23 06:12:15 PM [ Diverter] to: 192.168.56.110-
>192.168.56.110
02/17/23 06:12:15 PM [ Diverter] ICMP type 0 code 0 192.
168.56.110->192.168.56.110
02/17/23 06:12:16 PM [ Diverter] ICMP type 8 code 0 192.
168.56.110->8.8.8.8
02/17/23 06:12:16 PM [ Diverter] Modifying ICMP packet (
type 8, code 0):
02/17/23 06:12:16 PM [ Diverter] from: 192.168.56.110-
>8.8.8.8
02/17/23 06:12:16 PM [ Diverter] to: 192.168.56.110-
>192.168.56.110
02/17/23 06:12:16 PM [ Diverter] ICMP type 0 code 0 192.
168.56.110->192.168.56.110
02/17/23 06:12:17 PM [ Diverter] ICMP type 8 code 0 192.
168.56.110->8.8.8.8
02/17/23 06:12:17 PM [ Diverter] Modifying ICMP packet (
type 8, code 0):
02/17/23 06:12:17 PM [ Diverter] from: 192.168.56.110-
>8.8.8.8
02/17/23 06:12:17 PM [ Diverter] to: 192.168.56.110-
>192.168.56.110
02/17/23 06:12:17 PM [ Diverter] ICMP type 0 code 0 192.
168.56.110->192.168.56.110
02/17/23 06:12:18 PM [ Diverter] ICMP type 8 code 0 192.
168.56.110->8.8.8.8
02/17/23 06:12:18 PM [ Diverter] Modifying ICMP packet (
type 8, code 0):
02/17/23 06:12:18 PM [ Diverter] from: 192.168.56.110-
>8.8.8.8
02/17/23 06:12:18 PM [ Diverter] to: 192.168.56.110-
>192.168.56.110
02/17/23 06:12:18 PM [ Diverter] ICMP type 0 code 0 192.
168.56.110->192.168.56.110
```